

BOOK AND PERIODICAL PRICES IN AN ACADEMIC ENVIRONMENT

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Abstrak: *Perbelanjaan berkaitan dengan buku-buku dan majalah-majalah merupakan satu perkara utama dalam urusan belanjawan di mana-mana jenis perpustakaan. Maklumat tepat mengenai harga buku-buku dan majalah-majalah ialah asas dalam banyak perkara yang berhubungan dengan perancangan dan pengurusan perpustakaan. Bukan semua perpustakaan, walau bagaimanapun, boleh mendapatkan maklumat berkenaan. Dan jika mereka berjaya mendapatkannya, perangkaan-perangkaan itu mungkin tidak membayangkan corak perolehan bahan-bahan oleh perpustakaan-perpustakaan tempatan. Kertas ini mengandungi penemuan dan dapatan mengenai harga-harga buku dan majalah: dicerakinkan oleh agensi-agensi antarabangsa, dan juga Perpustakaan Universiti Malaya (PUM), berdasarkan pada corak-corak perolehan PUM.*

Abstract: *Expenditures relating to books and periodicals represent a major item of any library budget. Accurate information relating to book and periodical prices is therefore the foundation for many aspects of library planning and management. Not all libraries, however, have access to such information, and even when they do, such statistics may not reflect the acquisition patterns of local libraries. This paper presents findings on book and periodical prices: analysed by international agencies, as well as by the University of Malaya Library (UML), based on UML acquisition patterns.*

I. INTRODUCTION

Libraries should be aware of the cost patterns within which they operate. Apart from salary and other emoluments the biggest item of operating expenditures relates to purchases of books and periodicals. If a library knows with some degree of accuracy costs associated with book and periodical purchases, certain procedures of library planning and management become more rational, being empirically-based. For example, its budget exercises can be more sensibly planned, being translated into the number of volumes/subscriptions the library hopes to put into the system for the period ahead. It allows a library to establish more rational sums to be recovered from library users against book losses. They provide guides to libraries in assessing the relative advantages in purchasing items in different formats, e.g. print as

against microforms. The information may also be used to gauge the costs and benefits of such related library activities as interlibrary loan programmes and gift and exchange schemes.

All librarians do know how much they have spent in a given year on books and periodicals. Relatively few librarians actually know with clarity the average cost environment in which they operate, and less about average price increases over time.

Some of the bigger library establishments with sufficient funding may be aware of internationally-established costings. Smaller libraries whose librarians may not be members of library associations abroad may neither have the funding to purchase the reference materials in which such information is published; nor have access to library journals which periodically review book and periodical prices.¹

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¹ The Library Materials Price Index Committee of the Resources Section of the American Library Association conducts an annual survey of American periodical prices. The latest 'Price index for 1987: US periodicals' with statistics over ten years (1978-1987) is carried in the *Library Journal*, Vol. 112 No. 7 (15 April 1987), pp. 39 - 44.

The Library Association (U.K.) periodically publishes analyses of book and periodical prices in the *Library Association Record*.

It is also acknowledged that each library's purchasing pattern varies. This depends on the number of volumes purchased for different disciplines; the level of publishing at which materials are purchased; the countries from which materials are purchased; to a minor extent the agencies from which orders are taken; and finally the rates of exchange effective upon a library depending upon its national currency's strength *vis-a-vis* other currencies.

Given the importance of the subject, and the lack of studies undertaken within the local environment, this study seeks to establish, tentatively, cost patterns for an average sized academic library collection, as reflected by that of the University of Malaya Library system (UML). Prices given will also allow other libraries to establish their own cost patterns.

The Setting

Books. UML purchases materials published from all over the world, in some dozen languages. The materials, however, are mainly in English, Malay, Chinese, Tamil and Arabic, in about that order of numerical significance.

As with any university library operating in an environment where courses are offered in nearly all established disciplines and where research activity is fairly active, UML's book purchases reflect the whole range of knowledge: the fine arts; religion and philosophy; the arts and social sciences; and the theoretical and applied sciences.

In collection-building by geographical area, UML pays special attention to Southeast Asia. Its core emphasis, expectedly, is on Malaysian imprints.

In collection-building by level of publishing, UML concentrates on the teaching and research levels. With very few exceptions, it does not collect to cater for popular reading or in children's literature.

The types of materials collected by field are in consonance with teaching and research programmes of the academic departments at the University. Table I illustrates this picture, in showing the annual allocation by department over the years.

Periodicals. UML has a current subscription of about 4,400 periodical titles. As with monographic materials subscriptions cover a wide range of disciplines, but are taken in fewer languages: mainly English and Malay.

A number of 'popular' reading type of periodical titles such as newspapers and magazines are subscribed, but in the main, the level of subscription is at the teaching and research end.

It is against this setting that the following analyses are made. For both books and periodicals, the

internationally-established cost pictures are given. The UML cost patterns are then analysed to establish the local pattern. Differences, if any, are also analysed.

II. BOOK PRICES

Internationally-Established Prices

Tables II A–C indicate the following book prices:

- (a) British academic books
- (b) North American academic books
- (c) Hardcover prices in general as at 1986.

Table IIC in particular shows clearly that:

- (i) prices for different types of publishing have increased tremendously between 1977–1986;
- (ii) for all categories the average price has increased over the same period from about M\$60 to over \$90 per volume (50% of the base price);
- (iii) figures show that the most expensive volumes are in the fields of science and technology, medicine and law in that order.

UML Findings

No detailed historical data was possible for UML. However, from January 1987, UML's Acquisitions Division computerised its orders procedures. From 2 January to 30 June 1987 a total of 9,642 volumes were ordered at a cost of M\$544,473 (converted at prevailing rates of exchange). Thus the average cost per volume was M\$57.

A more detailed study was done on orders by department, and the results are as shown in Table III.

The range of price averages is quite tremendous: from M\$24 to M\$137. In a sense, therefore the overall average of M\$57 is fairly meaningless; and some caution should be exercised in making use of this figure.

The disaggregated averages, being more reflective of specific conditions, may have to be used for such specific policies as recovery of costs from users for lost books; gift/exchange programmes, etc. Specific averages must be used in estimating what a given allocation means for a specific department in terms of book purchases.

That one should not depend too much on the average price for monographic materials (M\$57) is substantiated by a secondary study on book replacement costs.

Like many libraries UML has lost thousands of volumes from its stocks. Between August 1986 to April 1987, a total of 463 lost items were re-ordered of which only 112 have been supplied. The details of this book replacement exercises is as follows.

	Original Cost (M\$)	Cost of Replacement (M\$)
Cost of 112 items	4,846.00	10,462.00
Average cost	43.30	93.40

This exercise also alerts the librarian to the price increases that he will face in replacing books published one to two decades ago. More than 100% price increases must be budgeted for in general. Individual percentages may be very great, however: in UML, a range of 2% to 1,200%, has been experienced.

III. PERIODICAL PRICES

Internationally-Established Prices

Internationally-established periodical prices are available for up to 1986. In brief, key average per subscription prices are as follows:

- Humanities and Social Sciences: M\$170
- Law: M\$230
- Medicine: M\$420
- Science and Technology: M\$700

Overall average: M\$440

(Prices converted at current prevailing rates of £1 = M\$4.00;
US\$1 = M\$2.60)

The details are as shown in Tables IID and IV.

Periodical price increases. Table IID shows that for the more recent period, 1974–1983, subscription prices for American periodicals have increased by 140 points with 1974 as the base year.

Table IV surveys subscription prices for British, European, American and other periodicals, over a longer period, 1970–1986. This is probably more reflective of UML's acquisition pattern.

The price increases are spectacular. Using 1970 as base year, the 1986 average increase for all periodicals is nearly 900 points. Some individual group averages (Medicine, the Sciences) are even higher.

The Library Association study shows that one should also budget for an annual price average increase of about 10%. The increases in prices over the last 15 years have been tremendous, as indicated by the Index points column, which for all prices, an index point increase of 977 is recorded with 1970 as the base year. This means that if in 1970, one paid \$100 for a subscription, one should be prepared to pay \$977 more for the same subscription by 1986. Even with a minimal 10% average increase in price, one should expect a subscription that cost \$100 in 1970 to cost nearly \$600 by 1987.

UML-Established Prices

Like book prices, it can be assumed that the local mix of periodicals taken would result in different average prices being experienced for a specific library. Based upon this hypothesis UML undertook two surveys to establish prices and costs for the UML system, involving over 4,400 subscriptions; taken at a cost of about M\$1.5 million.

- (i) *Current periodical vote subscriptions.* The first survey involved 3,800 subscriptions taken from the centralised Current Periodicals allocation (CP vote), involving over M\$1.4 million.

In brief, key average subscription costs for UML are as follows:

- Humanities and Social Sciences: M\$170
- Law M\$260
- Medicine: M\$330
- Science and Technology: M\$580

Overall average: M\$360

(For more details, see Table V.)

There is a remarkable coincidence between internationally-established and UML-established averages, though those for Medicine and Sciences seem a little lower at UML, due doubtless to the bigger number of lower cost local and Southeast Asian journal subscriptions at UML.

It is seen that the Library's own mix of periodical subscriptions have resulted in an average of M\$360 per subscription. This average, however, is a very general indicator of the actual situation. The range is actually very wide. At the lower end a subscription could be just a few dollars; at the higher end (as for *Chemical Abstracts*) the annual subscription is as high as M\$28,000.

- (ii) *UML subscriptions taken from departmental book votes.* The second study involved about 700 subscriptions costing about \$105,000 taken by departments against their own book votes.

Over the last few years there has been no significant increases to the journals vote for new journals. All increases have been allocated for the maintenance of old subscriptions. New subscriptions were only permitted to be taken against savings effected by cancellation of old periodical titles.

As a result of these stringencies on new journal subscriptions most faculties/departments to a greater or a lesser extent have had to utilise their book votes to support journal subscriptions needed for teaching or research.

In terms of volume of expenditures, 4 departments stand out very noticeably:

– Faculty of Medicine	M\$32,000
– Faculty of Law	M\$23,000
– Science Faculty	M\$18,000
– The Library	M\$14,000

The averages (per subscription) are considerably lower from this study, being:

– Library	M\$ 83
– Medicine	M\$110
– Humanities & Social Sciences	M\$150
– Science & Technology	M\$280
– Law	M\$330

Overall average M\$150

For details, See Table VI.

The price differences are not surprising as in a sense, this sample is not as random as the 3,800 titles in the first survey. Departments are more willing to fund cheaper subscriptions; paying for a few very expensive subscriptions only when desperate.

These averages are therefore more reflective of a more 'local' mix of periodicals, including newspapers, popular magazines, etc. which the central CP vote is unwilling to fund. These averages therefore are possibly reflective of the picture for most small local libraries.

Academic librarians should be aware of the importance placed on the serial/journal literature by their teaching departments, but particularly by the medical; science and technology; law; and library departments, as emphasized by the UML example.

In planning therefore, the lowest price averages they can use is M\$150 per subscription if their subscriptions are almost entirely local. If they purchase extensively from abroad, and acquire the top end of journal titles, a better average would be M\$350 per subscription.

Annual price increases

A 10% price increase per annum must be planned for in the budget, at the very least. This level of price increase is indicated by the LAR. At UML price increase averages of 10% – 15% have had to be accommodated in the last few years. From 1986, with the weakening of the Malaysian ringgit against all major currencies, *de facto* 'price increases' have been more painfully felt.

Service charges

An element of serials expenditures often overlooked is that associated with servicing and handling serial subscriptions by subscription agents.

Such service charges vary from agent to agent; and are also dependent on trade discounts given to agents by publishers. The schedule below indicates the range of charges effected by some major agents, most of whom are foreign-based. It can be seen therefore that a minimum average of about 10% of subscription costs must be budgeted for this element. A library with an extensive subscriptions list could end up paying a total hefty sum.

SCHEDULE OF PERIODICALS AGENTS USED BY UML AND THEIR SERVICE CHARGES

A. Main Library

1. Blackwell's Periodicals Division
P.O. Box 40, Hythe Bridge Street
Oxford OX1 2EU
England
(a) No service charge for most British serial publications.
(b) Service charge of 6% – 8% of subscription price on non-British serial publications, especially for American titles.
2. EBSCO Subscription Services
Foreign Direct Office
P. O. Box 1081
Birmingham
Alabama 35201
U.S.A.
(a) No minimum service charge.
(b) Service charge ranges from 5% – 10% of subscription price.
3. F.W. Faxon Co. Inc.
15 Southwest Park
Westwood, Mass. 02090
U.S.A.
(a) Minimum service charge: US\$2.00
(b) Service charge ranges from 3.5%–7% of subscription price.
4. Parry's Book Center
P.O. Box 10960
50730 Kuala Lumpur.
(a) No service charge for periodicals of which they hold agency rights e.g. from publishers such as Elsevier/North Holland, Munksgaard and Dr. W. Junk.
(b) Service charge of 10% of subscription price for all other titles.
5. University of Malaya Co-operative Bookshop
P.O. Box 1127, Jalan Pantai Baru
59700 Kuala Lumpur.

- (a) Minimum service charge: M\$5.00
- (b) Maximum service charge: M\$70.00
- (c) No service charge for titles on which UMCB is given 15% trade discount and above by publishers.

B. The Law Library

1. Malayan Law Journal (Pte.) Ltd.

Suite 1001–1002, 10th Floor
Wisma Hamzah Kwong Hing
No. 1 Leboh Ampang
50100 Kuala Lumpur.

- (a) No service charge for titles of commercial publishers.
- (b) Service charge of 10% of subscription price for titles from institutions and societies which normally do not offer them trade discounts.

2. The Law Library also uses Parry's and UMCB.

C. The Medical Library

1. H.K. Lewis & Co

P.O. Box 66, 136 Gower Street
London WC1E 6BS
England.

- (a) No service charge for U.K. publications.
- (b) Service charge ranges from 10% – 15% of subscription price for other titles, and especially for American titles.

2. The Medical Library also uses Parry's and UMCB.

IV. CONCLUSION

Most libraries are lulled into a false sense of security when a 'standstill' budget is granted. The figures may be the same, but in real resource terms, this is a retrogressive budget.

Very little empirical evidence has been adduced as to what is a 'correct' mix of book and periodical allocation for a library in general or specified terms. A rough 'rule-of-thumb' is that one should strive for a 50-50 balance, but should not exceed a ratio of 40-60 in terms of book to periodical allocations.

Academic librarians may have to revise these opinions in the light of the continued emphasis given by academic departments on journal literature against books; against a background of 'standstill' or cutbacks in the budget; and resistance by departments to cancel subscriptions.

Library planning has never been easy, but in view of all the current stresses and strains, it promises to be even more difficult. This exercise hopes that armed with the necessary figures a stronger case for empirical library budgeting may at least be made to the authorities. On the home front, it should point the way towards more rational planning and costing; and more confident estimates of what amount of resources the budget will bring.

TABLE I
UML BOOK ALLOCATIONS, 1980 – 1986

Faculty/Department	1980 \$	1981 \$	1982 \$	1983 \$	1984 \$	1985 \$	1986 \$
Academy for Islamic Studies ^a	—	100,000.00 ^b	—	35,543.00	31,520.00	47,182.25	47,182.25
Faculty of							
Economics and Administration	106,677.00	132,100.00	187,110.00	133,010.00	47,280.00	106,689.50	106,689.50
Faculty of Engineering	48,004.00	62,200.00	77,838.00	55,332.00	47,280.00	72,124.50	72,124.50
Faculty of Education	29,336.00	35,980.00	74,844.00	53,204.00	47,280.00	71,044.00	71,044.00
Faculty of Dentistry	16,001.00	26,180.00	37,422.00	26,602.00	47,280.00	59,161.50	59,161.00
Faculty of Medicine	104,996.00	132,100.00	187,110.00	133,010.00	94,560.00	153,969.50	153,969.50
Faculty of Arts	133,078.00	174,220.00	226,030.00	160,677.00	94,560.00	168,392.25	168,392.25
Anthropology and Sociology	20,535.00	29,380.00	37,422.00	26,602.00	8,794.28	18,972.83	18,972.83
Geography	11,734.00	14,630.00	18,711.00	13,301.00	8,794.28	14,939.19	14,939.19
English	20,802.00	28,850.00	44,906.00	31,922.00	8,794.28	20,416.72	20,416.72
Southeast Asian Studies	—	—	—	—	4,500.00	6,800.41	6,800.41
Indian Studies	5,334.00	6,600.00	8,982.00	6,385.00	8,794.28	12,742.88	12,742.88
Islamic Studies	16,001.00	19,800.00	18,711.00	13,301.00	8,794.28	14,939.19	14,939.19
Population Studies Programme	—	—	—	—	4,500.00	6,800.41	6,800.41
Malay Studies	18,668.00	26,180.00	33,680.00	23,942.00	24,000.04	37,063.76	37,063.76
Chinese Studies	16,535.00	20,110.00	26,196.00	18,622.00	8,794.28	16,744.03	16,744.03
History	23,469.00	28,670.00	37,422.00	26,602.00	8,794.28	18,972.83	18,972.83
Faculty of Science	172,813.00	220,970.00	303,866.00	216,008.00	110,320.00	207,710.50	207,710.50
Botany	32,002.00	46,150.00	59,875.00	42,563.00	17,200.00	34,859.05	34,859.05
Physics	24,002.00	29,380.00	37,422.00	26,602.00	14,300.00	26,329.52	26,329.52
Genetics and Cellular Biology	26,669.00	35,980.00	37,422.00	26,602.00	14,300.00	26,329.52	26,329.52
Geology	12,801.00	17,300.00	23,202.00	16,494.00	9,250.00	16,913.59	16,913.59
Chemistry	16,001.00	19,800.00	52,390.00	37,242.00	18,600.00	34,726.57	34,736.57
Mathematics	32,002.00	42,580.00	56,133.00	39,903.00	20,000.00	37,632.25	37,632.25
Zoology	29,336.00	29,780.00	37,422.00	26,602.00	14,300.00	26,329.52	26,329.52
Office of the Dean of Science	—	—	—	—	2,370.00	4,580.48	4,580.48
Faculty of Law	106,677.00	132,100.00	187,110.00	133,010.00	94,560.00	153,969.50	153,969.50
Institute of Advanced Studies	37,337.00	65,940.00	82,329.00	58,525.00	31,520.00	57,445.00	57,445.00
Center for Foundation							
Studies in Science	20,000.00	20,000.00	18,711.00	13,301.00	23,640.00	29,580.75	29,580.75
Language Centre	10,000.00	13,200.00	14,969.00	10,641.00	23,640.00	28,501.25	28,501.25
Cultural Centre	—	—	44,906.00	31,922.00	15,760.00	29,802.50	29,802.50
Computer Centre	10,667.00	19,800.00	11,226.00	7,980.00	15,760.00	19,000.50	19,000.50
Library (for the whole University)	95,214.00	146,740.00	201,269.00	143,075.00	63,040.00	123,516.50	112,516.50
Audio-Visual	2,667.00	6,600.00	7,966.00	5,663.00	3,040.00	9,767.08	5,116.50
Southeast Asia	16,001.00	33,170.00	44,906.00	31,922.00	6,000.00	17,871.12	15,870.00
Malaysia	17,602.00	26,580.00	44,906.00	31,922.00	20,000.00	36,136.70	35,130.00
Red Spot	26,669.00	32,770.00	34,906.00	24,813.00	11,000.00	22,458.51	22,500.00
Replacements	5,334.00	13,200.00	18,711.00	13,301.00	10,000.00	1,317.03	—
Reference & General	21,341.00	26,570.00	34,904.00	24,812.00	9,000.00	23,746.73	23,700.00
Science (General)	4,000.00	5,530.00	7,485.00	5,321.00	3,000.00	7,412.29	5,400.00
Arts (General)	1,600.00	2,320.00	7,485.00	5,321.00	1,000.00	4,807.04	4,800.00
	<u>890,800.00</u>	<u>1,281,530.00</u>	<u>1,654,740.00</u>	<u>1,211,840.00</u>	<u>788,000.00</u>	<u>1,328,090.00</u>	<u>1,317,090.00</u>

Note: ^a The Academy comprises two faculties: Faculty Syariah & Faculty Usuluddin.

^b A special allocation for 1981 & 1982.

TABLE IIA

BRITISH ACADEMIC BOOKS: AVERAGE PRICES AND PRICE INDEXES, 1982-1984*
(Index Base 1979=100)

Dewey Classes†	1979			1982			1983			1983 (July-December)			1984 (Preliminary)‡		
	Average Price £ p	No. of Books	Average Price £ p	Average Price £ p	No. of Books	Index	Average Price £ p	No. of Books	Index	Average Price £ p	No. of Books	Index	Average Price £ p	No. of Books	Index
000	14.17	587	14.31	101.0	559	101.0	12.68	559	89.5	13.10	250	92.4	18.84	382	133.0
100	8.89	384	13.47	151.5	295	151.5	13.11	295	147.5	14.04	140	157.9	14.90	218	167.6
200	5.47	541	6.51	119.0	621	119.0	7.90	621	144.4	7.28	271	133.1	7.40	293	135.3
300	9.15	3,305	12.21	133.4	2,865	133.4	11.05	2,865	120.8	12.65	1,260	138.3	15.13	1,735	165.4
400	7.62	194	10.05	131.9	143	131.9	9.48	143	124.4	9.95	67	130.6	12.99	89	170.5
500	16.67	1,339	21.76	130.5	860	130.5	24.75	860	148.5	27.75	431	166.5	26.19	542	157.1
600	14.32	2,298	20.33	142.0	1,631	142.0	20.65	1,631	144.2	21.73	826	151.7	23.58	1,119	164.7
700	9.57	907	12.92	135.0	880	135.0	12.31	880	128.6	12.33	370	128.8	16.35	432	170.8
800	7.19	1,060	8.85	123.1	1,033	123.1	9.75	1,033	135.6	10.48	461	145.8	9.64	785	134.1
900	7.78	1,094	10.02	128.8	1,093	128.8	10.11	1,093	129.9	10.71	509	137.7	11.49	570	147.7
Total	10.81	11,709	14.29	132.2	9,980	132.2	13.61	9,980	125.9	14.96	4,585	138.4	16.51	6,165	152.7

*Data compiled and computed by Richard Hume Working, Trinity University, from Lawraine Wood, *Claim: Average Prices of British Academic Books, 1983*, Report No. 31, and *Claim: Average Prices of British Academic Books, 1984*, forthcoming Report No. 40, both published under the auspices of the Centre for Library and Information Management, Loughborough University of Technology.

†000 General Works; Bibliographies; Librarianship

100 Philosophy; Psychology; Occultism, etc.

200 Not subdivided

300 Sociology; Politics; Economics; Law, Public Administration; Social Problems and Services; Education; Social Customs, etc.

400 Language; School Readers

500 General Science; Mathematics; Astronomy; Physics; Chemistry; Geology; Meteorology; Pre-history; Anthropology

600 Medicine; Public Safety; Engineering/Technology; Agriculture; Domestic Economy; Business Management; Printing and Book Trade; Manufacturers; Chemical Technology; Building

700 Architecture; Fine Arts; Photography; Music; Entertainment; Sports; Amusements

800 General and Foreign Literature; English Literature

900 Geography; Travel; Biography; History

‡Preliminary data for 1984 cover the period from January through June.

Source of Table IIA: *Bowker Annual of Library & Book Trade Information*, 30th edn., New York, R. R. Bowker Co., 1985, p. 483.

TABLE IIB
NORTH AMERICAN ACADEMIC BOOK PRICE INDEX, 1980/81-1983/84*
(Index Base: 1979/80 = 100)

Subject	LC Class	1980/1			1981/82			1982/23			1983/84		
		Overall Average	Percent Increase	Index	Overall Average	Percent Increase	Index	Overall Average	Percent Increase	Index	Overall Average	Percent Increase	Index
Agriculture	S	\$23.18	24.3	124.3	\$32.32	12.1	139.4	\$32.64	1.0	140.8	\$35.36	8.3	152.5
Anthropology	GN	18.37	20.5	120.5	23.64	6.8	128.7	24.88	5.2	135.4	25.39	2.0	138.2
Botany	QK	30.39	12.3	112.3	44.75	31.1	147.3	46.82	4.6	154.1	44.31	-5.4	145.8
Business and economics	H	19.09	9.5	109.5	23.73	13.5	124.3	25.52	7.5	133.7	26.17	2.6	137.1
Chemistry	QD	43.76	3.3	103.3	53.29	17.9	121.8	57.69	8.3	131.8	57.44	-0.4	131.3
Education	L	14.51	11.6	111.6	18.84	16.3	129.8	19.84	5.3	136.8	20.77	4.7	143.2
Engineering and technology	T	30.36	33.65	110.8	35.77	6.3	117.8	39.14	9.4	128.9	42.07	7.5	138.6
Fiction and children literature	PZ	11.26	14.08	125.0	15.91	13.0	141.2	14.52	-8.7	129.0	14.06	-3.2	124.8
Fine and applied arts	M-N	21.60	16.2	116.2	28.80	14.7	133.3	30.17	4.8	139.7	29.92	-0.8	138.5
General works	A	22.21	32.59	146.7	30.37	-6.8	136.7	27.48	-9.5	123.7	30.02	9.2	135.2
Geography	G	23.91	28.76	120.3	31.53	9.6	131.9	36.83	16.8	154.1	37.54	1.9	157.0
Geology	OE	31.73	33.95	107.0	40.59	19.6	127.9	41.05	1.1	129.4	43.92	7.0	138.4
History	C-D-E-F	18.99	22.17	116.7	20.04	8.4	126.6	24.95	3.8	131.4	25.93	3.9	136.5
Home economics	TX	16.41	19.66	119.8	20.71	5.3	126.2	22.03	6.4	134.3	22.77	3.3	138.7
Industrial arts	TT	16.19	18.53	114.4	17.86	-3.6	110.3	18.97	6.2	117.1	20.66	8.9	127.6
Law	K	20.21	21.66	107.2	23.46	8.3	116.1	30.08	28.2	148.9	31.06	3.2	153.7
Library and information science	Z	22.02	23.32	105.9	24.71	6.0	112.2	28.04	13.5	127.3	29.93	6.7	135.9
Literature and language	P	15.47	17.90	115.7	19.94	11.4	128.9	22.06	10.6	142.5	21.67	-1.8	140.0
Math and computer science	QA	24.77	26.18	105.7	29.27	11.8	118.1	29.83	1.9	120.4	27.69	-7.2	111.8
Medicine	R	26.09	30.24	115.9	29.51	-2.4	113.1	36.52	23.8	140.0	37.46	2.6	143.6
Military and naval science	U-V	18.29	21.13	115.5	24.29	14.9	132.8	23.28	-4.2	127.2	23.91	2.7	130.7
Philosophy and Religion	B	15.75	17.64	112.1	19.49	10.5	123.8	20.24	3.9	128.5	20.96	3.5	133.1
Physical education and recreation	GV	12.33	14.31	116.1	15.45	7.9	125.3	16.53	7.0	134.1	17.04	3.1	138.2
Physics and astronomy	QB	35.98	38.74	107.7	42.47	9.9	118.3	44.06	3.5	122.5	44.09	0.1	122.5
Political science	J	17.25	19.47	112.9	21.96	12.8	127.4	24.22	10.3	140.4	24.73	2.1	143.4
Psychology	BF	18.83	21.13	112.2	24.52	16.1	130.2	26.27	7.1	139.5	27.78	5.7	147.5
Science (general)	Q	22.87	26.20	114.6	29.50	12.6	129.0	33.20	12.5	145.1	32.14	-3.2	140.5
Sociology	HM	16.89	18.90	111.9	21.45	13.5	127.0	22.94	6.9	135.8	23.59	2.9	139.7
Zoology	QH	32.81	37.77	115.1	42.23	11.8	128.7	44.81	6.1	136.5	45.43	1.4	138.4
Average for all subjects		22.12	25.19	113.9	27.95	11.0	126.3	29.81	6.7	134.8	30.48	2.2	137.8
Canadian history		\$10.74	\$11.79	9.8	109.8	\$16.33	38.5	\$19.62	20.1	182.7	\$19.12	-2.5	178.0
Canadian literature		6.29	6.79	7.9	107.9	8.31	22.4	9.07	9.1	144.2	10.06	10.9	159.9

* Compiled by Dora Biblarz, Arizona State University, from data collected from approval plan statistics supplied by Baker & Taylor, Coutts Library Services, and Blackwell/North America for titles published or distributed in the United States and Canada. Baker & Taylor figures included continuations (series, serials, and sets) and paperbacks of 48 pages or less. "General Supplementary" and "Extracurricular" (nonacademic) categories are included by Baker & Taylor in 1979 - 1980 but excluded beginning in 1980 - 1981. The fiscal year used by Baker & Taylor and Blackwell/North America is July 1 to June 30. From 1979 - 1980 to 1982 - 1983, Coutts Library Services used the fiscal year June 1 to May 31; in 1983 - 1984, Coutts changed its fiscal year to February 1 to January 31.

Source of Table IIB: *Bowker Annual*, 1985, p. 476.

TABLE IIC

HARDCOVER AVERAGE PER-VOLUME PRICES*

Category	1977 Prices	1983 Vol.	1983 Prices	1984 Vols.	1984 Prices	1985 Preliminary Vols.	1985 Preliminary Total	Prices
Agriculture	\$16.24	395	\$33.39	359	\$34.92	304	\$ 11,026.47	\$36.27
Art	21.24	1,180	33.79	1,114	33.03	719	25,420.07	35.35
Biography	15.34	1,540	22.40	1,408	22.53	1,050	23,379.52	22.26
Business	18.00	1,152	27.72	1,116	26.01	846	24,188.96	28.59
Education	12.95	617	21.56	580	24.47	506	14,000.52	27.66
Fiction	10.09	2,072	14.29	1,989	14.74	1,421	21,683.38	15.25
General Works	30.99	1,582	37.45	1,602	35.61	1,378	51,916.34	37.67
History	17.12	1,612	24.96	1,432	27.53	1,234	33,488.20	27.13
Home Economics	11.16	713	16.62	655	15.70	497	8,504.99	17.11
Juveniles	6.65	2,524	9.73	2,398	10.02	2,034	20,114.49	9.88
Language	14.96	379	23.80	410	22.97	285	8,108.42	28.45
Law	25.04	1,196	39.09	925	43.88	757	31,713.60	41.89
Literature	15.78	1,264	23.63	1,243	23.57	977	23,810.69	24.37
Medicine	24.00	3,270	39.84	2,836	40.65	2,300	100,039.96	43.49
Music	20.13	270	25.77	232	27.79	185	5,145.84	27.81
Philosophy, Psychology	14.43	1,024	25.72	895	29.70	752	21,189.42	28.17
Poetry, Drama	13.63	675	22.42	599	26.75	467	10,232.66	21.91
Religion	12.26	1,257	16.74	1,118	17.76	876	16,408.01	18.73
Science	24.88	2,878	47.04	2,535	46.57	2,106	108,087.14	51.32
Sociology, Economics	29.88	5,717	43.34	5,066	33.35	4,027	136,619.87	33.92
Sports, Recreation	12.28	693	20.05	623	20.16	419	9,309.22	22.21
Technology	23.61	2,046	41.14	1,797	45.80	1,366	67,302.43	49.26
Travel	18.44	286	21.65	252	21.31	177	4,230.67	23.90
Total	\$19.22	34,342	\$31.19	31,184	\$29.99	24,683	\$775,920.67	\$31.43

* From Weekly Record Listings of Domestic and Imported Books.

Source of Table IIC: *Publishers Weekly*, Vol. 229, No. 1 (14 March 1986), p. 40

TABLE IID
AVERAGE PRICES AND INDEXES FOR COLLEGE AND UNIVERSITY
LIBRARY ACQUISITIONS
1975-1984

Year		U.S. Hardcover Books		U.S. Periodicals		Foreign Monographs ¹		Library Acquisitions Price Index ²
		Av. Price	Index ³	Av. Price	Index ³	Av. Price	Index ³	
Calendar	Fiscal							
1974	1975	\$14.09	100.0	\$34.55	100.0	\$ 6.42	100.0	100.0
1975	1976	16.19	114.9	38.94	112.7	7.59	118.3	114.7
1976	1977	17.20 ^a	122.1	41.85	121.1	7.91	123.2	122.0
1977	1978	18.03	128.0	45.14	130.6	8.89	138.5	130.4
1978	1979	20.10	142.7	50.11	145.0	9.41	146.6	144.0
1979	1980	22.80	161.8	57.23	165.6	11.52	179.5	165.6
1980	1981	23.57	167.3	67.81	196.3	13.05	203.3	181.4
1981	1982	26.88	190.8	73.89	213.9	13.84	215.6	201.5
1982	1983	30.34	215.3	78.04	225.9	11.91	185.5	214.3
1983	1984	31.19	221.4	82.47	238.7	12.09	188.3	221.6

1 All hardcover books, paperbacks, and pamphlets purchased during the fiscal year by the Library of Congress from approximately 100 foreign countries.

2 Weighted average based on the estimated proportion of the total acquisitions budget expended for each category. Weights used — U.S. hardcover books, 55 percent; U.S. periodicals, 30 percent, and foreign monographs, 15 percent.

3 Indexes are not fixed-weight indexes; they reflect changes in the type and mix of books and periodicals from year to year. The fiscal year index refers to average price in the previous calendar year due to the normal time delay between published date and purchase.

a In 1976, *Publishers Weekly* reported a book price of \$17.39 for an 18-month period (1976-1977). An adjusted value of \$17.20 for calendar year 1976 was determined from the trend line.

Source: Prices of hardcover books are published in *The Bowker Annual of Library & Book Trade Information*, R. R. Bowker, New York, based on books listed in the Weekly Record section of *Publishers Weekly* for the calendar year with an imprint for the same year. Not included are mass market paperbacks, government documents, and certain multivolume encyclopedias. U.S. periodicals are priced by the F.W. Faxon Co. and reported by F.F. Clasquin in the October issues of *Library Journal*. Foreign monographs are priced according to an unpublished price series prepared by the Library of Congress.

Source of Table IID: *Bowker Annual*, 1985, p. 445.

TABLE III
UML BOOK PRICE AVERAGES 1987

Department	Average Price (M\$)
Academy for Islamic Studies	35
Faculty of Economics & Administration	56
Faculty of Engineering	121
Faculty of Education	45
Faculty of Dentistry	104
Faculty of Medicine	137
Faculty of Arts & Social Sciences	24
Faculty of Science	136
Faculty of Law	112
Institute of Advanced Studies	135
Centre for Foundation Studies in Science	72
Language Centre	65
Cultural Centre	98
Computer Centre	81
Library	30
Overall Average	57

- NOTES:
1. Analysis is for 9,642 volumes bought between 2 January – 30 June 1987
 2. Total cost: M\$544,473 converted at current exchange rates for foreign publications.
 3. Average prices are obtained by dividing the total cost incurred by the number of volumes ordered for each department.

TABLE IV
PERIODICAL PRICES
TOTAL ALL SUBJECTS

Subject	Journals priced between 50p and £25				All Prices		
	No. of titles sampled	% increase on 1986	Index 1970 = 100	Average price 1987 £ p	No. of titles sampled	% increase on 1986	Index 1970 = 100
Humanities and Social Science	240	2.6	340.6	16.97	842	12.2	923.5
Medicine	10	5.1	214.4	20.06	203	3.9	1,025.8
Science and Technology	82	2.2	201.0	18.22	962	13.4	1,158.8
Total	344	2.8	252.0	17.63	2,007	12.3	1,097.0

ANALYSIS BY COUNTRY OF ORIGIN

Country	Journals priced between 50p and £25				All Prices		
	No. of titles sampled	% increase on 1986	Index 1970 = 100	Average price 1987 £ p	No. of titles sampled	% increase on 1986	Index 1970 = 100
Great Britain	201	5.0	264.0	16.51	879	10.8	1,048.7
USA and Canada	90	(7.6)	231.5	19.11	698	1.4	969.7
Other countries	41	15.8	230.1	17.77	430	34.3	1,437.0

MEDICINE

Subject	Journals priced between 50p and £25				All Prices		
	No. of titles sampled	% increase on 1986	Index 1970 = 100	Average price 1987 £ p	No. of titles sampled	% increase on 1986	Index 1970 = 100
Dentistry, Ophthalmology, Audiology	—	—	—	—	17	3.1	887.3
General Medicine	2	—	124.6	10.60	27	1.1	740.3
Neurology, Psychiatry	—	—	—	—	25	4.1	1,169.2
Pathology and Clinical Medicine	1	—	224.1	24.00	52	5.4	1,042.4
Pharmacology	—	—	—	—	21	6.7	927.1
Public Health, Nursing, General Practice	6	10.8	389.5	22.13	26	7.4	967.6
Surgery, Anatomy, Physiology	—	—	—	—	20	(0.1)	1,465.9
Veterinary Medicine	1	(12.6)	218.4	22.61	15	2.8	887.5
Total	10	5.1	214.4	20.06	203	3.9	1,025.8

TABLE IV (Cont)

HUMANITIES AND SOCIAL SCIENCES

Subject	Journals priced between 50p and £25				All Prices			
	No. of titles sampled	% increase on 1986	Index 1970 = 100	Average price 1987 £ p	No. of titles sampled	% increase on 1986	Index 1970 = 100	Average price 1987 £ p
Accountancy and Finance	6	0.5	455.9	19.53	19	6.2	911.9	39.06
Architecture and Town Planning	4	0.2	286.8	18.22	34	12.1	1,149.1	73.01
Art	7	2.4	223.8	15.98	28	17.8	603.7	43.10
Classics and Archaeology	10	6.9	354.6	18.13	30	21.1	699.5	35.77
Commonwealth, Oriental and African Studies	4	2.1	367.2	16.64	19	5.0	917.1	41.57
Economics and Trade	10	16.5	306.3	17.86	63	11.4	945.7	70.34
Education and Child Psychology	23	10.1	360.7	15.08	70	8.7	914.9	42.52
English Language and Literature	23	(1.3)	429.2	16.62	38	4.7	693.4	26.85
Entertainment — Theatre, Film, Ballet	10	2.8	410.4	15.51	23	11.4	799.9	30.23
European Language and Literature	12	6.4	421.0	17.96	57	24.8	967.5	41.27
General and Popular	10	(5.7)	311.9	16.36	29	17.9	759.1	39.82
Geography	10	0.6	328.9	18.02	34	9.3	745.9	40.88
History	17	0.1	438.6	17.68	50	15.8	877.4	35.36
Law and Criminology	8	0.3	260.7	19.07	35	11.6	848.3	62.05
Librarianship and Documentation	6	7.1	207.4	15.26	37	5.7	774.9	76.92
Management	9	(8.7)	313.8	17.51	40	6.9	915.8	51.12
Music and Recording	12	(2.3)	391.9	15.58	19	3.3	572.1	22.75
Philosophy	8	(6.5)	541.6	18.53	27	11.3	1,151.0	39.38
Photography	2	19.5	432.6	19.95	5	(3.9)	864.7	39.88
Political Economy and Politics	10	(5.1)	453.5	17.66	38	4.7	1,006.0	39.19
Psychology	1	11.1	243.1	20.00	32	4.1	1,047.7	102.22
Religion and Theology	18	8.2	493.7	17.21	47	21.9	928.9	32.38
Sociology	7	17.5	358.0	16.25	49	4.5	891.3	48.06
Sports and Pastimes	13	5.2	566.4	15.60	19	3.2	755.5	20.81
Total	240	2.6	340.6	16.97	842	12.2	923.5	51.58

TABLE IV (Cont)

SCIENCE AND TECHNOLOGY

Subject	Journals priced between 50p and £25				All Prices			
	No. of titles sampled	% increase on 1986	Index 1970 = 100	Average price 1987 £ p	No. of titles sampled	% increase on 1986	Index 1970 = 100	Average price 1987 £ p
Agriculture	10	2.7	269.8	17.65	46	5.6	1,231.8	80.60
Anthropology	3	(14.2)	244.2	18.52	16	1.6	1,004.2	76.16
Astronomy, Astrophysics	3	(11.2)	257.5	18.38	13	8.9	1,374.2	193.38
Biology	—	—	—	—	32	5.6	1,039.9	304.44
Biophysics, Biochemistry, Microbiology	—	—	—	—	26	15.0	1,339.0	493.74
Botany	1	—	156.5	11.75	25	12.8	1,413.8	130.62
Chemistry	—	—	—	—	66	14.6	1,206.5	487.31
Civil Engineering	1	14.3	347.5	24.00	26	11.2	1,091.2	87.00
Computers, Automation and Control	4	(4.4)	195.7	20.30	37	12.2	1,070.4	143.19
Electronics, Electrical Engineering and Aeronautics	12	6.1	143.0	15.37	73	8.8	947.2	160.89
Food, Soap, Cosmetic Industries	3	1.7	152.3	13.77	37	8.2	837.7	79.38
General Science	6	(0.3)	205.1	19.43	25	14.8	996.2	144.60
General Technology	4	6.0	181.0	19.74	33	10.5	1,047.5	205.81
Geology, Mineralogy, Geophysics and Meteorology	1	(9.4)	183.7	17.50	44	14.0	1,048.2	151.44
Glass, Ceramics	4	5.1	272.9	17.19	20	9.3	992.8	87.40
Heating, Lighting, Ventilating	1	34.0	360.3	16.78	13	5.6	803.9	37.44
Industrial and Engineering Chemistry	—	—	—	—	22	17.4	915.8	124.05
Mathematics and Statistics	4	(0.1)	192.7	19.36	51	9.9	1,320.1	182.70
Mechanical Engineering	1	(7.7)	309.0	24.70	30	13.7	919.4	107.53
Metallurgy	1	50.2	211.3	18.76	36	16.9	858.2	104.16
Nuclear Science and Technology	2	(13.6)	207.1	23.71	30	23.8	1,214.7	348.79
Petroleum and Fuel Technology	3	2.9	199.8	17.90	22	27.1	1,377.6	123.47
Physics	1	(7.7)	119.7	18.58	57	17.7	1,566.0	396.98
Polymers, Paint, Rubber, Plastics	2	8.4	286.6	22.62	48	12.2	960.4	173.84
Printing, Paper, Packaging and Production Engineering and Operational Research	1	—	301.9	22.30	20	4.8	1,002.7	87.03
Textiles, Leather, Dyeing	3	2.6	266.2	18.11	28	16.8	1,407.5	95.75
Transport	—	—	—	—	22	6.9	866.4	62.04
Zoology	9	8.7	368.9	17.67	24	11.7	1,565.9	75.02
	2	12.8	259.7	22.00	40	14.9	1,271.1	117.70
Total	82	2.2	201.0	18.22	962	13.4	1,158.8	189.51

Source of Table IV: *Library Association Record*, Vol. 89 No. 5 (May 1987), pp. 246–247.

TABLE V

PERIODICAL PRICES: UML CURRENT PERIODICAL VOTE, 1986/87

SUBJECT	LC Class Number	No. of Titles	Total Cost (M\$)	% Of Total Serial Allocation	Average Price (M\$)
1. General (incl. Military & Naval Science)	A, U-V	73	13,506	0.95	185
2. Philosophy & Psychology (incl. Ethics & Religion)	B-BP	69	12,084	0.85	174
3. Fine Arts & Music	N, M	25	2,701	0.19	108
4. Bibliography & Library Science	Z	136	55,529	3.88	408
Sub-Total		303	83,820	5.87	276
5. Engineering & Technology	T-TT	350	120,167	8.41	343
6. Education (incl. Sports)	L, GV	144	17,139	1.20	119
7. Agriculture	S	90	21,688	1.52	240
8. Medicine & Dentistry		841	277,800	19.44	330
9. Science					
General Science (incl. Astronomy & Home Economics)	Q, QB TX	62	31,102	2.17	501
Botany	QK	66	26,385	1.85	399
Physiology & Microbiology	QP, QR, R	80	60,795	4.26	759
Physics	QC	118	108,049	7.56	915
Geology	QE	101	37,400	2.62	370
Chemistry	QD	113	137,620	9.63	1217
Mathematics	QA	159	93,155	6.52	585
Zoology, Natural History & Biology	QL, QH	214	114,018	7.98	532
Sub-total		913	608,524	42.59	666
10. Social Science					
Social Science (General	H	19	2,475	0.17	130
Economics & Administration	HB-HJ	246	53,176	3.72	216
Statistics	HA	22	2,432	0.17	110
Sub-total		287	58,083	4.06	202
11. Arts					
Language & Literature	P-PS	132	14,786	1.03	112
Geography & Cartography	G-GC	60	12,227	0.86	203
Political Science	J	44	8,388	0.59	190
Sociology, Anthropology & Ethnology	GF-FT	92	17,913	1.26	194
History	C-F	126	16,207	1.13	128
Sub-total		454	69,521	4.87	153
12. Law	K	297	75,867	5.31	255
13. Titles catalogued individually; Microform collection,		122	29,145	2.05	—
Malmarc database subscription,		—	66,956	4.68	—
Cumulative indexes & replacements		—	—	—	—
Grand Total		—	1,428,710	100	—

Note: Microforms at UML are catalogued, but are not assigned classification numbers.

TABLE VI

PERIODICAL PRICES: UML (BOOK VOTE), 1986/87

Faculty/Department	No. of Titles	Cost(M\$)	Average(M\$)
Faculty of Economics & Administration	14	2,678	
Faculty of Arts & Social Science			
— Anthropology & Sociology	3	271	
Geography	5	1,245	
English	2	106	
Islamic Studies	11	542	
Malay Studies	10	361	
Chinese Studies	1	56	
History	9	1,826	
Faculty of Education	25	4,845	
Language Centre	2	282	
Culture Centre	1	74	
Sub-total	83	12,286	148.02
Faculty of Engineering	7	668	
Faculty of Science			
Botany	3	1,263	
Physics	12	3,467	
Genetics & Cell Biology	13	3,183	
Geology	11	2,038	
Chemistry	8	2,191	
Mathematics	7	3,181	
Zoology	4	1,757	
Dean of Science	6	1,108	
Computer Centre	5	2,639	
Sub-Total	76	21,495	282.83
Faculty of Law	69	22,821	330.74
Faculty of Dentistry	23	2,278	
Faculty of Medicine	284	31,859	
Sub-Total	307	34,137	111.20
Library (for whole University)			
Southeast Asian Studies	22	1,941	
Malaysian	92	4,437	
Reference & General	49	7,201	
Sub-Total	163	13,579	83.31
GRAND TOTAL	698	104,318	149.45